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(54) IMPROVEMENT FOR MICROSTRIP PATCH FILTER

(57)Abstract:

PROBLEM TO BE SOLVED: To miniaturize the size of a microstrip filter.

SOLUTION: A ground face where a dielectric member D11 is printed on one face and a conductive device printed on the other face are provided inside and the conductive device contains a flat patch PA1 and an input lead line IL1 and an output lead line OL1, which are electromagnetically connected to the flat patch PA1. The flat patch PA1 or the dielectric substrate DI1 has a metallic narrow part CO1 increasing reactance arranged along a part of the patch PA1. When the narrowed part CO1 is within the patch, it forms the inductive narrow part for current concentration. When the narrowed part exists in the dielectric substrate, it increases static capacitance. The patch has the two narrowed parts which cross each other in a embodiment. Thus, the patch is divided into four sub-patches which are connected in the form of a cross by the inductive narrowed part for current concentration by the parts.
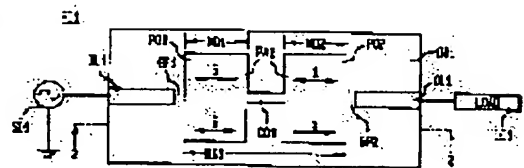
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